

CLAIMS

1. A device for the selection of a region (2; 22; 32; 42; 52; 62; 72; 82) of a dental restoration body (1, 71) depicted in 3D representation, **wherein** at least parts of the regional boundary are in the form of dentally specific lines (5, 6, 8).
2. A device as defined in claim 1, wherein said region (2; 22; 32; 42; 52; 62; 72; 82) is selected by selecting, in the 3D representation displayed, dentally specific lines (5, 6, 8) or dentally specific points (7.1 – 7.4) or a preparation border (4).
3. A device as defined in claim 1 or claim 2, wherein the dentally specific lines (5, 6, 8) used are the equator (5), the marginal crest (6), or alternatively, on anterior teeth, the labiolingual line (76) and the fissure (8), or alternatively, on anterior teeth, the cutting edge (78), and the dentally specific points used are the positions of one or more cusp peaks, individually, severally or all together.
4. A device as defined in any one of claims 1 to 3, wherein each of said dentally specific lines (5, 6, 8) and/or the preparation border (4) is divided into four parts representing the mesial, distal, buccal, and lingual sides of the tooth respectively.
5. A device as defined in any one of claims 1 to 4, wherein the selected part of the line (4, 5, 6, 8) selects that half of the tooth in which said region (2; 22; 32; 42; 52; 62; 72; 82) lies.
6. A device as defined in any one of claims 1 to 5, wherein the selected line selects said region (2; 22; 32; 42; 52; 62; 72; 82) completely according to the following assignments:
 - preparation border (4): the region (2; 22) extends from the preparation border (4) to the center of the occlusal surface (9);

- equator (5): the region (32) lies between the preparation border and the marginal crest;
- marginal crest (6): the region (42) extends from the equator (5) to the center of the occlusal surface (9);
- fissure (8): the entire occlusal surface (9) is selected as the region (52), this being delimited by the marginal crest (6).

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- 10 7. A device as defined in claim 1 or claim 2, wherein the selection of a dentally specific point (7.1 – 7.4) relating to the position of a cusp peak makes it possible to select the region (62) of the corresponding cusp (7) up to its cusp borders.
- 15 8. A device as defined in claim 7, wherein the lower limit of said region (62) may be formed by the equator (5).
- 20 9. A device as defined in any one of claims 2 to 8, wherein instead of selecting the displayed lines or points, a region of the displayed surface is selected which is unambiguously assigned to the region to be selected.
10. A device as defined in any one of claims 1 to 9, wherein said selected region (2; 22; 32; 42; 52; 62; 72; 82) is shown in a distinguishable fashion.
- 25 11. A device as defined in any one of claims 1 to 10, wherein evaluating and/or comparative means are provided for geometrical data of said selected region (2; 22; 32; 42; 52; 62; 72; 82).
- 30 12. A device as defined in any one of claims 1 to 11, wherein said selected region (2; 22; 32; 42; 52; 62; 72; 82) can be processed with the aid of a design tool of a CAD system.

13. A device as defined in claim 12, wherein the tool for modifying a region (2; 22; 32; 42; 52; 62; 72; 82) leaves the regional boundaries unchanged, a continuous increase in modification taking place up to the point (33; 73) requiring the greatest degree of modification.

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14. A device as defined in claim 13, wherein said point (33; 73) of greatest modification lies on a dentally specific line (5, 6, 8) or on a dentally specific point (7.1 – 7.4).

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15. A method of selecting a region (2; 22; 32; 42; 52; 62; 72; 82) of a dental restoration body (1, 71) depicted as a 3D representation, **wherein** to said selected region regional boundaries are assigned which are, at least in part, in the form of dentally specific lines (5, 6, 8).

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16. A method as defined in claim 15, wherein the selection of said region (2; 22; 32; 42; 52; 62; 72; 82) is effected by selecting a dentally specific line (5, 6, 8) or a dentally specific point (7.1 – 7.4) or a preparation border (4) associated with said region to be selected (2; 22; 32; 42; 52; 62; 72; 82).